

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A method comprising:
electing a first server as active manager server, wherein the first server resides in
a chassis and the active manager to run services for each server in the
chassis;
continuously storing replicated health metrics and performance metrics
matrices from each server in the chassis in a database associated with the
chassis to avoid reconfiguring the active manager server when replacing a
failed server with a new server;
receiving an indication that the first server has failed, wherein the indication is
based on the health metrics matrices and performance metrics matrices;
based on receiving the indication, electing a second server to replace the first
server to act as the active manager server based on a predetermined
criteria, wherein the second server resides in the chassis;
automatically replacing the first server with the second server as the active
manager server in response to the indication received; and
redirecting requests for the first server to the second server.
2. (Currently Amended) The method of claim 1, wherein the predetermined criteria
comprises electing a server with the lowest internet protocol (IP) ~~IP~~-address as the
active manager server.
3. (Currently Amended) The method of claim 1, further comprising:

extracting the health metrics and performance metrics, wherein the health metrics and performance metrics ~~are dynamic~~ comprise dynamic health metrics and performance metrics;

replicating the health metrics and performance metrics, wherein the replicating the health metrics and performance metrics is performed periodically; and dynamically updating a database populated with the health metrics and performance metrics.

4. (Currently Amended) The method of claim 3, wherein the health metrics ~~are~~ comprise server-based health metrics and performance metrics.
5. (Currently Amended) The method of claim 3, wherein the health metrics comprise one or more of tracking power levels and temperature levels based on predetermined thresholds.
6. (Currently Amended) The method of claim 3, wherein the performance metrics comprise one or more of operating system-based metrics, kernel-based metrics, and server-based metrics.
7. (Currently Amended) The method of claim 3, wherein the performance metrics comprise one ore more of tracking central processing unit (CPU) CPU-utilization and memory utilization based on predetermined thresholds.

8. (Currently Amended) The method of claim 3, further comprises ~~an alert mechanism to alert~~ alerting whenever the health metrics or the performance metrics violate the predetermined thresholds.
9. (Currently Amended) The method of claim 3, further comprising replicating identification information, wherein the identification information comprises static identification information ~~is static~~.
10. (Currently Amended) A high-availability management system comprising:
a chassis comprising a plurality of slots;
a plurality of server modules coupled to the plurality of slots, wherein a first server module of the plurality of server modules is elected as an active manager server, the active manager server to run services for each of the plurality of server modules;
a database coupled to the plurality of server modules to continuously store replicated health metrics and performance metrics matrices from each server in the chassis to avoid reconfiguring the active manager server when replacing a failed server with a new server;
a second server module elected, based on receiving the indication, to replace the first server to act as the active manager server based on a predetermined criteria;
an indication to indicate that the first server module has failed, wherein the indication is based on health metrics matrices ~~and performance metrics matrices~~;

the second server module to automatically replace the first server module as the active manager server in response to the indication received; and a redirection process to redirect requests for the first server module to the second server module.

11. (Currently Amended) The high-availability management system of claim 10, further comprising a database coupled to the chassis for storing information regarding one or more of chassis identification, slot identification, and server module type.
- 12-13. (Cancelled)
14. (Previously Presented) The high-availability management system of claim 10, wherein the election of the first server module as the active manager server is performed by middleware, wherein the middleware comprises a software.
15. (Previously Presented) The high-availability management system of claim 10, wherein the election of the second server module as the active manager server is performed by the middleware.
16. (Currently Amended) The high-availability management system of claim 10, wherein the first server module is elected from a group comprising one or more of servers, telephone line cards, and power substations.

17-20. (Cancelled)

21. (Currently Amended) A machine-readable medium having stored thereon data representing sets of instructions, the sets of instructions which, when executed by a machine, cause the machine to:

elect a first server as active manager server, wherein the first server resides in a chassis and the active manager to run services for each server in the chassis;

continuously store replicated health metrics and performance metrics matrices in a database associated with the chassis from each server in the chassis to avoid reconfiguring the active manager server when replacing a failed server with a new server;

receive an indication that the first server has failed, wherein the indication is based on the health metrics matrices and performance metrics matrices;

based on receiving the indication, elect a second server to replace the first server to act as the active manager server based on a predetermined criteria, wherein the second server resides in the chassis;

automatically replace the first server with the second server as the active manager server in response to the indication received; and
redirect requests for the first server to the second server.

22. (Currently Amended) The machine-readable of claim 21, wherein the predetermined criteria comprises electing a server with the lowest internet protocol (IP) IP-address as the active manager server.

23. (Currently Amended) A machine-readable medium of claim 21, wherein the sets of instructions which, when executed by the machine, further cause the machine to:

extract the health metrics and performance metrics, wherein the health metrics and performance metrics ~~are dynamic~~ comprise dynamic health metrics and performance metrics;

replicate the health metrics and performance metrics, wherein the replicating the health metrics and performance metrics is performed periodically; and

dynamically update a database populated with the health metrics and performance metrics.

24-26. (Cancelled)